

WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



INTERNATIONAL APPLICATION PUBLISH	HED (UNDER THE PATENT COOPERATION TREATT (PCT)
(51) International Patent Classification ⁶ :		(11) International Publication Number: WO 00/29618
C12Q 1/68	A1	(43) International Publication Date: 25 May 2000 (25.05.00)
 (21) International Application Number: PCT/US (22) International Filing Date: 10 November 1999 ((30) Priority Data: 60/108,089 12 November 1998 (12.11.9) (71) Applicant (for all designated States except US): UNITORY OF VIRGINIA PATENT FOUNDATION [US/UI-110, 1224 West Main Street, Charlottesville, US). (72) Inventors; and (75) Inventors/Applicants (for US only): POWELI (US/US); 2175 Anderson Lane, Charlottesville, US/US). GRAMLEY, William [US/US]; 3207 (Court, Wilmington, NC 28409 (US). (74) Agent: BREEN, John, P.; University of Virginia Padation, Suite 1-110, 1224 West Main Street, Charlottesville, VA 22903 (US). 	VERSI' JS]; SteVA 229 L, Ste VA 229 Snowbo	BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, IP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML MR, NE, SN, TD, TG). Published With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.
(54) Title: NON-INVASIVE DETECTION OF HELIC	ОВАС	TER PYLORI INFECTION

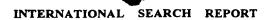
(57) Abstract

The present invention relates to a kit and method of purifying DNA from stool samples of vertebrate species. The DNA is recovered in sufficient purity to allow the DNA to be amplified by PCR, thus allowing the identification of pathogenic organisms present in the digestive tract.

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International application No.
PCT/US99/26471

IPC(6) :	SIFICATION OF SUBJECT MATTER C12Q 1/68 435/6		
According to	International Patent Classification (IPC) or to both n	ational classification and IPC	
B. FIEL	DS SEARCHED		
Minimum do	cumentation searched (classification system followed	by classification symbols)	
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Documentati	on searched other than minimum documentation to the	extent that such documents are included	in the fields searched
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Electronic d	ata base consulted during the international search (name	me of data base and, where practicable,	search terms used)
	eses: biosis, medline, caplus, lifesci, embase rwent, USPAT, EUROPAT, JAPPAT databases.		
c. Doc	UMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.
Y	US 5,403,924 A(COVER et al) 04 Apr see Abstract, Col.12, lines 52-69, and		1-17
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Furti	ner documents are listed in the continuation of Box C	See patent family annex.	
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	cument defining the general state of the art which is not considered be of particular relevance	the principle or theory underlying th	
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Date of the	actual completion of the international search	Date of mailing of the international se	arch report
09 FEBR	UARY 2000	17 MAR 2000	:
Commissi Box PCT	mailing address of the ISA/US oner of Patents and Trademarks	Authorized officer	Illingson
Washington	n, D.C. 20231 No. (703) 305-3230	Telephone No. (703) 305-0273	
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

pplicant's or agent's file reference	FOR FURTHER ACTION	See Notifi Preliminary	cation of Transmittal of International Examination Report (Form PCT/IPEA/416)
00362-02 nternational application No.	International filing date (day/	month/year)	Priority date (day/month/year)
PCT/US99/26471	10 NOVEMBER 1999	•	12 NOVEMBER 1998
nternational Patent Classification (IPC) IPC(7): C12Q 1/68 and US Cl.: 435	or national classification and II	PC	
applicant UNIVERSITY OF VIRGINIA PATE	NT FOUNDATION		
Examining Authority and is	s transmitted to the applicant	s been prepa t according to	ared by this International Preliminary Article 36.
1 1	AND TO VEC in the	sneets contain	ceription, claims and/or drawings which have ng rectifications made before this Authority under the PCT).
These annexes consist of a	total of A sheets.		
3. This report contains indication		items:	
IV Lack of unity of V X Reasoned statem citations and exp VI Certain documen VII Certain defects in	ent of report with regard to solve of invention the nent under Article 35(2) with replanations supporting such state	regard to nove ement	ntive step or industrial applicability lty, inventive step or industrial applicability
Date of submission of the demand	D	Date of complet	tion of this report
08 JUNE 2000		27 FEBRUA	A /
Name and mailing address of the IPE Commissioner of Patents and Tra Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230	ademarks	GARY JON	Il Il allem for



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

In ational	application	No.

PCT/US99/26471

Basis of the re	eport		
With regard to the	elements of the international ap	plication: *	
	tional application as origina	lly filed	
السام	ation:		as originally filed
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pages	NONE NONE		, filed with the demand
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X the claims	10.22		, as originally filed
pages	NONE	, as amended (together with a	iny statement) under Article 19
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pages	NONE CONTRACTOR	filed with the letter of	
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the segue	nce listing part of the descrip	ption:	as originally filed
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the langu	uage of publication of the in tage of the translation furnished	ned for the purposes of international sea international application (under Rule 48 d for the purposes of international prelimina	ary examination (under Rules 55.2 ar
or 55.3). 3. With regard preliminary	to any nucleotide and/or am examination was carried out	nino acid sequence disclosed in the interrest on the basis of the sequence listing:	national application, the international
pre	and anni	cation in printed form.	
contains	ed in the international appli		n.
filed to	gether with the internationa	l application in computer readable form	
furnishe	ed subsequently to this Autl	hority in written form.	
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The star	tement that the subsequently	furnished written sequence listing does r	not go beyond the disclosure in the
The stat	tement that the information recursived.	corded in computer readable form is identic	eal to the writen sequence listing has
		the cancellation of:	
4. X The ar	mendments have resulted in		
X,	the description, pages	NONE	
	the claims, Nos.	NONE	
	1 4 1C'	NONE	
1 —		no of the amendments had not been made,	since they have been considered to go
1 — , .	. I the disclosure as filed as Inc	dicated in the Supplemental Box (Rule 70.2) ed to the receiving Office in response to an in the not annexed to this report since they do	Amida 14 are reterred
		mendments must be referred to under item	



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

In ational application	No.
DOT/11000/26471	

statement			
Novelty (N)	Claims	1-17	YI
Novelty (14)	Claims	NONE	
Inventive Step (IS)	Claims	NONE	YI
inventive step (12)	Claims	1-17	No
Industrial Applicability (IA)	Claims	1-17	YI
industrial Application (12)	Claims	NONE	No
		NNA from the stool sample. It was t	well known in the art.
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